Test Report

Liquid and Plastic Limit by Cone Apparatus

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	21
Date	1-Apr-2018

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm		
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet s	gm	**Non Plastic**	**Non Plastic**
4	Weight of container + dry s	gm		
5	Weight of water, D=(B - C	gm		
6	Weight of dry soil, E=(C - A	gm		
7	Water Content, D/E x 100	gm		

Comments: <6 so Non Plastic

Note:

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Authorised Signatory

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Project Division
Yelahanka Zone
Bangalore

Test Report

Liquid and Plastic Limit by Cone Apparatus

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	22
Date	1-Apr-2018

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm	**Non Plastic**	**Non Plastic**
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet s	gm		
4	Weight of container + dry s	gm		
5	Weight of water, D=(B - C	gm		
6	Weight of dry soil, E=(C - A	gm		
7	Water Content, D/E x 100	gm		

Comments: <6 as Non Plastic

Note:

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Test Report
Liquid and Plastic Limit by Cone Apparatus

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	23
Date	1-Apr-2018

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm	**Non Plastic**	**Non Plastic**
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet s	gm		
4	Weight of container + dry s	gm		
5	Weight of water, D=(B - C	gm		
6	Weight of dry soil, E=(C - A	gm		
7	Water Content, D/E x 100	gm		

Comments: <6 as Non Plastic

Note:

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Yelahanka Zone
Bangalore

Test Report
Liquid and Plastic Limit by Cone Apparatus

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	24
Date	1-Apr-2018

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm		
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet s	gm		
4	Weight of container + dry s	gm	**Non Plastic**	**Non Plastic**
5	Weight of water, D=(B - C	gm		
6	Weight of dry soil, E=(C - A	gm		
7	Water Content, D/E x 100	gm		

Comments: <6 so Non Plastic

Note:

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Insight Makes It Happen

MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report

Field Density Test by Sand Replacement Method

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	hay
Material	Wet Mix Macadam
Sample No	1
Date	30-Mar-2018

Test Hole No	1
MDD	2.24
OMC in %	3.2
Bulk Density Ys	1.392
Weight of Sand in cone W1 (gm)	1195
Weight Of Wet soil From Hole (W2)	4320
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000
Wt Of Sand +Cylinder After Pouring (W4) gm	13175
Wt Of Sand in Hole: W5 = W3 - W4- W1 (gm)	2630
Volume of Hole: V= W5/ Ys	1889.37
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.59
Moisture Content w (From Graph In %)	3.29
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.82

Note:

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Asst. Executive Engineer
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Yelahanka Zone
Bangalore

Test Report

Field Density Test by Sand Replacement Method

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bzy
Material	Wet Mix Macadam
Sample No	2
Date	30-Mar-2018

Test Hole No	2
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4325.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13170.00
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2635.00
Volume of Hole: V= W5/ Ys	1892.96
Bulk Density Yb= W2/V (gm/cc)	2.28
Moisture Meter Reading (%)	1.59
Moisture Content : w (From Graph In %)	3.30
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.74

Note:

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Bangalore

Test Report
Field Density Test by Sand Replacement Method

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Wet Mix Macadam
Sample No	3
Date	30-Mar-2018

Test Hole No	**3**
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4430.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13110.00
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2695.00
Volume of Hole: V= W5/ Ys	1936.06
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.56
Moisture Content : w (From Graph In %)	3.32
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.87

Note:

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Yelahanka Zone
Bangalore

Test Report

Field Density Test by Sand Replacement Method

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Wet Mix Macadam
Sample No	4
Date	30-Mar-2018

Test Hole No	4
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4435.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13115.00
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2690.00
Volume of Hole: V= W5/ Ys	1932.47
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.54
Moisture Content : w (From Graph In %)	3.53
Dry Density Yd = Yb/(1+W/100)	2.22
Field Compaction(%)	98.96

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Project Divisior
Yelahanka Zon
Bangalore

Test Report
Field Density Test by Sand Replacement Method

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Wet Mix Macadam
Sample No	5
Date	30-Mar-2018

Test Hole No	5
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4325.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13170.00
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2635.00
Volume of Hole: V= W5/ Ys	1892.96
Bulk Density Yb= W2/V (gm/cc)	2.28
Moisture Meter Reading (%)	1.61
Moisture Content : w (From Graph In %)	3.30
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.74

Note:

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Coarse Aggregates
Sample No	6
Date	30-Mar-2018

Test Hole No	6
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4330.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13165.00
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2640.00
Volume of Hole: V= W5/ Ys	1896.55
Bulk Density Yb= W2/V (gm/cc)	2.28
Moisture Meter Reading (%)	1.61
Moisture Content : w (From Graph In %)	3.31
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.66

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